

Week-7 • Exception Handling

```
import java.util.Scanner;
class WrongAge extends Exception {
```

```
{
    public WrongAge (String message)
    {
        super(message);
    }
}
```

```
class Father {
    protected int fatherAge;
    public Father (int age) throws
        WrongAge {
```

```
        fatherAge = age;
        if (fatherAge < 0) {
```

```
            throw new WrongAge ("Father's age
            can't be negative");
        }
    }
}
```

```
class Son extends Father {
```

```
    private int sonAge;
    public Son (int fatherAge, int sonAge)
    throws WrongAge {
```

```
        super(fatherAge);
```

```
        this.sonAge = sonAge;
    }
}
```



```
if (sonAge < 0)
```

```
{
    throw new ("Son's age can't be neg");
}
```

```
if (sonAge > fatherAge)
```

```
{
    throw new WrongAge("Son's age can't be negative >= father's age");
}
```

```
}
```

```
public class Main {
```

```
    public static void main (String [] args)
```

```
{
    Scanner scanner = new Scanner (System.in);
```

```
try {
```

```
    System.out.println("Enter father's age");
```

```
    int fatherAge = scanner.nextInt();
```

```
    System.out.println("Enter 'son's Age'");
```

```
    int sonAge = scanner.nextInt();
```

```
    son son = new son (fatherAge, sonAge);
```

```
    System.out.println("Father's Age" +
```

```
fatherAge);
```

```
    System.out.println("Son's age" +
```

```
sonAge);
}
```

```
catch (WrongAge e)
```



```

}
System.out.println("Exception
caught" + e);

System.out.println("Exception caught"
+ e.getMessage());
}

catch (Exception e)
{
System.out.println("Error" + e);
System.out.println("Error" + e.get
Message());
}

finally {
Scanner.close();
}
}
}

```

Output:

```

Enter father's age: 50
Enter son's age: -20
Exception caught: Wrong Age: Son's
age can't be neg or zero.
Exception caught: Son's age can't be
neg or zero.

```

```

Enter father's age: 30
Enter son's age: 31
Exception caught: Son's age can't be
greater or equal to father's age.

```